Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-13 (canceled).

Claim 14 (currently amended). A photodiode device comprising:
a silicon carbide photodiode comprising a second semiconductor layer on a first semiconductor layer; and
an integral aluminum gallium nitride filter on the second semiconductor layer.

Claims 15-16 (canceled).

Claim 17 (currently amended). A method for fabricating a photodiode device for combustion flame temperature determination comprising fabricating an integral filter over a silicon carbide photodiode, ~~The method of claim 16~~ wherein fabricating the integral filter comprises growing an aluminum gallium nitride filter.

Claim 18 (currently amended). A method for fabricating a photodiode device for combustion flame temperature determination comprising fabricating an integral filter over a silicon carbide photodiode, ~~The method of claim 16~~ wherein fabricating the integral filter comprises fabricating a silicon oxynitride filter.

Claim 19 (currently amended). ~~The method of claim 16~~ A method for fabricating a photodiode device for combustion flame temperature determination comprising fabricating an integral filter over a silicon carbide photodiode, wherein fabricating the integral filter comprises alternating thin film layers of silicon oxide and silicon nitride.

Claim 20 (new). The photodiode device of claim 14 further comprising a passivation layer on the integral filter.

Claim 21 (new). The photodiode device of claim 20 wherein the first and second semiconductor layers comprise 6H type crystalline silicon carbide layers.

Amendments t _Invent rship:

Applicant hereby requests that the name of Kanin Chu, a co-inventor of a pending prior patent application, Application No.: 09/793,432, filed 27 February 2001, be deleted as an inventor in this divisional application. The remaining named inventor, Dale Marius Brown contributed to claims 14 and 17-21, which will be under consideration for this divisional application.